

ABSTRACT:

The present invention is a system and method for detecting facial features of humans in a continuous video and superimposing virtual objects onto the features automatically and dynamically in real-time. The suggested system is named Facial Enhancement Technology (FET). The FET system consists of three major modules, initialization module, facial feature detection module, and superimposition module. Each module requires demanding processing time and resources by nature, but the FET system integrates these modules in such a way that real time processing is possible. The users can interact with the system and select the objects on the screen. The superimposed image moves along with the user's random motion dynamically. The FET system enables the user to experience something that was not possible before by augmenting the person's facial images. The hardware of the FET system comprises the continuous image-capturing device, image processing and controlling system, and output display system.